Dr. Asma Saleem Qazi

Tenured Associate Professor

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Profile

Dr. Asma Saleem Qazi has been working at National university of medical sciences for over a decade. Dr. Qazi's journey in microbiology began with a strong educational foundation by earning her Bachelor and Master's degree in Microbiology from Karachi University, Pakistan where her fascination with microorganisms and their complex roles in providing bio-energy based sustainable solutions as well as their role as pathogens took roots majorly focusing on molecular aspects of the subject.

Driven by her thirst for knowledge and interest in interdisciplinary research, she continued her PhD in molecular Pathology from Dalian Medical University, Dalian, China. Her doctoral research focused on biomarker and their role in cancer progression. She is an active researcher and a distinguished molecular biologist with several impactful research publications, books and chapters. With over 13 years of teaching and research experience she has particular focus on cancer therapeutics, antimicrobial resistance and bioenergy based sustainable solutions.

Research Interest

Biomarkers, Cancer therapeutics, Molecular diagnostics, Applied microbiology, Bio-inspired solutions & bioactive compounds

Selected Publications

- ✓ Shams, A.; Ahmed, A.; Khan, A.; Khawaja, S.; Rehman, N.U.; Qazi, A.S.; Khan, A.; Bawazeer, S.; Ali, S.A.; Al-Harrasi, A. (2023). Naturally Isolated Sesquiterpene Lactone and Hydroxyanthraquinone Induce Apoptosis in Oral Squamous Cell Carcinoma Cell Line. *Cancers*. 15, 557.
- ✓ Malik, Zuleikha ; Muhammad, Nawshad; Kaleem , Muhammad; Nayyar, Maleeha ; Qazi, Asma ; Butt, Danial ; Safi, Sher; Khan, Abdul. (2023) Anticariogenic and Mechanical Characteristics of Resin Modified Glass Ionomer Cement Containing Lignin-decorated Zinc Oxide Nanoparticles. *ACS Appl. Bio Mater.* 6(2), 425–435.

- ✓ Low ZX, Teo MYM, Juliana Nordin F, Palanirajan VK, Morak-Młodawska B, Saleem Qazi A, et al. (2024) Enhancing the solubility and potency of tetrahydrocurcumin as an anti-cancer agent using a β-cyclodextrin inclusion complex approach. *PLoS ONE* 19(7): e0305171.
- ✓ Iqbal, S., Saeed, R. F., Zafar, S., Qazi, A. S., Shah, S. H. B. U., Abid, J., Farooq, U., Akram, S., & Ahmad, A. M. R. (2025). Effect of cumin and coriander seeds consumption on dyslipidemia, abdominal fat, body weight, and lipid profile in rat models: Cumin and coriander seeds consumption and dyslipidemia. *Cellular and Molecular Biology*, *71*(8), 60–66.
- ✓ Uzma, A., Adiba, Kausar, A., Aslam, M. W., Ali, L., Ali, M., Qazi, A. S., Haq, A., Amraiz, D., Sindi, E. R., Alqahtani, T., Zaki, M. E. A., & Assefa, M. (2026). In Silico and in vitro antiviral activity of FDA approved drugs from ZINC database against RNA-dependent RNA polymerase of dengue virus. *Virology journal*, *23*(1), 76.

Grants/Awards/Achievements

- ✓ Research grant on ''Biomarker screening for early diagnosis of cancer'' funded by Higher Education Commission (HEC- Pakistan).

- ✓ Research project on ''Pre-clinical assessments of natural compounds for their anti-cancer potential funded by UCSI-Malaysia.
- ✓ Research project on ''In vitro Activity and Molecular Characterization of 4th Generation Antibiotics against Clinical Isolates of Gram-Negative bacteria'' funded by NUMS Pakistan.
- ✓ Research grant on ''Clinical and molecular study of muscular and neurological anomalies'' funded by Higher Education Commission (HEC- Pakistan).
- ✓ Research project on ''Isolation and Molecular Characterization of Resistant Bacterial Strains from Industrial Wastewater and analysis of antibacterial potential of *Alnus Nitida* Plant Extract against Resistant Strains of bacteria''.
- ✓ Research project on ''Synthesis of Polymer Embedded Nanofiber Filters to Eliminate Microbial and Metallic Contaminant from Water'' funded under 'Technology Innovation Fund' by National University of Medical Sciences, Pakistan.
- ✓ NUMS zero waste project to attain eco-sustainability.